



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

105 7-2-01  
FDG 8-1-01  
NMP 8-1-01

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/822,864	04/02/2001	Robert Joseph Ledoux	004600/USA/TCG/ORION/LE

CONFIRMATION NO. 7224

## FORMALITIES LETTER



\*OC000000006138486\*

Robert Mulcahy, Esq.  
Applied Materials, Inc.  
Box 450A  
Santa Clara, CA 95052

REC'D JUN 5 2001

Date Mailed: 06/01/2001

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 710 to complete the basic filing fee and/or file a small entity statement claiming such status (37 CFR 1.27).*
- Total additional claim fee(s) for this application is \$160.
  - \$160 for 2 independent claims over 3.
- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 1000.**

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
  - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. ( 5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

JUN - 5 2001

*A copy of this notice **MUST** be returned with the reply.*

A handwritten signature in black ink, appearing to be 'uf', is written above a horizontal line.

---

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/822,864	04/02/2001	2878	0.00	004600/USA/TCG/ORION/LE	4	9	5

CONFIRMATION NO. 7224

## FILING RECEIPT



\*OC000000006138485\*

Robert Mulcahy, Esq.  
Applied Materials, Inc.  
Box 450A  
Santa Clara, CA 95052

REC'D JUN 5 2001

Date Mailed: 06/01/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

## Applicant(s)

Robert Joseph Ledoux, Harvard, MA;  
Boisseau Raymond Paul, Waltham, MA;  
Nett William Philip, Waltham, MA;

## Domestic Priority data as claimed by applicant

## Foreign Applications

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

## Title

Method and system for controlling beam scanning in an ion implantation device

## Preliminary Class

250

---

**Data entry by : ZEWDIE, BIZUAYEHU**

**Team : OIPE**

**Date: 06/01/2001**



**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

**PLEASE NOTE the following information about the Filing Receipt:**

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
- The words "new," "improved," "improvements in" or "relating to" are not included as first words in the title of an application because a patent application, by nature, is a new idea or improvement.
- The title may be truncated if it consists of more than 500 characters (letters and spaces combined).
- The docket number allows a maximum of 25 characters.
- If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along with a copy of the Express Mail label showing the "date in."
- The title is recorded in sentence case.

Any corrections that may need to be done to your Filing Receipt should be directed to:

Assistant Commissioner for Patents  
Office of Initial Patent Examination  
Customer Service Center  
Washington, DC 20231



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Raymond P BOISSEAU , et al

Assignee: APPLIED MATERIALS, INC.

Title: METHOD AND SYSTEM FOR CONTROLLING BEAM SCANNING IN AN  
ION IMPLANTATION DEVICE

Serial No.: 09/822,864

Confirmation Number Assignment: 7224

Filed: 02AP2001

Group Art Unit: 2878

Attorney Docket No.: 004600

Examiner: Unknown

Santa Clara, California  
July 31, 2001

Box: Missing Parts

ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

Attention: Manager

Applications Division

RESPONSE TO NOTICE TO FILE MISSING PARTS  
OF APPLICATION - FILING DATE GRANTED

Sir:

In response to the Notice to File Missing Parts of Application - Filing Date Granted mailed by the United States Patent and Trademark Office on June 1, 2001, the following documents are enclosed and comments rendered to complete the filing of the above-identified patent application:

1. A combined declaration and power of attorney signed by the inventor(s) in compliance with 37 CFR 1.63 (4 pages);
2. Substitute drawings in compliance with 37 CFR 1.84 (4 sheets)
3. A copy of the Notice to File Missing Parts of Application - Filing Date Granted

The United States Patent and Trademark Office is hereby authorized to charge the following fees to Deposit Account 50-1074;

1. Filing Fee - Original Patent Application (37 CFR 1.16(a))	\$ 710.00
2. Fees for claims	
_X_ each independent claim in excess of 3 (37 CFR 1.16(f))	\$ 160.00
___ each claim in excess of 20 (37 CFR 1.16(c))	
___ each multiple dependent claim (37 CR 1.16(d))	
_X_ Late Payment of filing fee or late filing of original declaration or oath - (37 CFR 1.16(e))	\$ 130.00
Total Completion Fees	\$1,000.00

3. Applicant petitions for an extension of time, the fees for which are set out in 37 CFR 1.17(a)-(d), for the total number of months checked below:

Extension (Months)      Fee for other than Small Entity

\_\_\_ One Month                      \$ 110.00

\_\_\_ Two Months                     \$ 390.00

\_\_\_ Three Months                  \$ 890.00

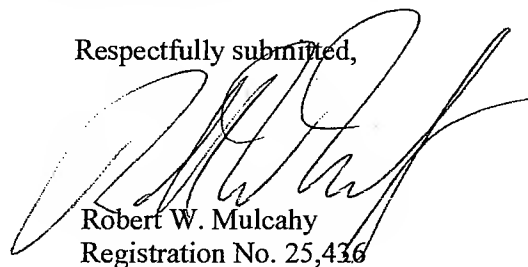
\_\_\_ Four Months                  \$1,390.00

If an additional extension of time is required please consider this a petition therefor.

4. The Commissioner is hereby authorized to charge **\$1,000.00** and any additional fees which may be required, or credit any overpayment, to Deposit Account No.50-1074.

It is hereby respectfully submitted that the enclosed documents complete the filing of the above-named patent application and justify the filing date of 02AP2001 . Please telephone the undersigned at (408) 563-2726, if there are any questions regarding this matter.

Respectfully submitted,



Robert W. Mulcahy  
Registration No. 25,436

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner of Patents and Trademarks,

Washington, D.C. 20231 on 7/31/01

Signature: 





## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

105 7-2-01  
FDG 8-1-01  
NMP 8-1-01

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/822,864	04/02/2001	Robert Joseph Ledoux	004600/USA/TCG/ORION/LE

CONFIRMATION NO. 7224

## FORMALITIES LETTER



\*OC000000006138486\*

Robert Mulcahy, Esq.  
Applied Materials, Inc.  
Box 450A  
Santa Clara, CA 95052

REC'D JUN 5 2001

Date Mailed: 06/01/2001

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 710 to complete the basic filing fee and/or file a small entity statement claiming such status (37 CFR 1.27).*
- Total additional claim fee(s) for this application is \$160.
  - \$160 for 2 independent claims over 3 .
- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 1000.**

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
  - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. ( 5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

COMPLIANCE REQUIRED  
JUN - 5 2001

*A copy of this notice **MUST** be returned with the reply.*



---

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY